

WHAT IS CLAIMED IS:

1. A film forming apparatus comprising:  
a container;  
5 a heater; and  
a substrate holder,  
wherein the heater comprises heating means for heating the container and moving  
means.

10 2. A film forming apparatus according to claim 1, wherein the heater comprises  
moving means for moving in a longitudinal direction of the container.

3. A film forming apparatus according to claim 1, wherein the heater moves at a  
speed of  $10^{-2}$  to 10 cm/h.

15 4. A film forming apparatus according to claim 1, wherein the container includes  
an organic compound in a solid state at room temperature under normal atmospheric  
pressure.

20 5. A film forming apparatus according to claim 1, wherein the container is  
provided with a plurality of the heaters.

6. A film forming apparatus according to claim 1, said film forming apparatus  
comprises a plurality of the containers.

25 7. A film forming apparatus according to claim 1, wherein the containers  
comprises crucible.

8. A film forming apparatus comprising:  
30 a film forming chamber; and

a purifying chamber connected to film forming chamber via a gate,  
wherein the purifying chamber comprises a container and a heater, and  
wherein the heater comprises heating means for heating the container and moving  
means.

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9. A film forming apparatus according to claim 8, wherein the heater comprises  
moving means for moving in a longitudinal direction of the container.

10 A film forming apparatus according to claim 8, wherein the heater moves at a  
10 speed of  $10^{-2}$  to 10 cm/h.

11. A film forming apparatus according to claim 8, wherein the container includes  
an organic compound in a solid state at room temperature under normal atmospheric  
pressure.

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12. A film forming apparatus according to claim 8, wherein the container is  
provided with a plurality of the heaters.

13. A film forming apparatus according to claim 8, wherein said film forming  
20 apparatus comprises a plurality of the containers.

14. A film forming apparatus according to claim 8, wherein the containers  
comprises crucible.

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15. A film forming apparatus comprising:  
a film forming chamber;  
a purifying chamber,  
wherein the film forming chamber comprises a vaporization source and the  
purifying chamber comprises a plurality of containers, a heater, and a carrier mechanism,  
30 wherein the plurality of containers are stacked on each other,

wherein the heater comprises moving means and heating means for heating the containers at the time of movement of the heater, and

wherein the carrier mechanism comprises carrying means for carrying only a container containing a highly purified organic compound among the plurality of containers  
5 from the purifying chamber to the film forming chamber.

16. A film forming apparatus according to claim 15, wherein the heater comprises moving means for moving in a longitudinal direction of the container.

10 17. A film forming apparatus according to claim 15, wherein the heater moves at a speed of  $10^{-2}$  to 10 cm/h.

18. A film forming apparatus according to claim 15, wherein the plurality of containers have a structure in which a plurality of containers each having an opening at a  
15 bottom are stacked on a container having a bottom portion.

19. A film forming apparatus according to claim 15, wherein the container includes an organic compound in a solid state at room temperature under normal atmospheric pressure.

20 20. A film forming apparatus according to claim 15, wherein the container is provided with a plurality of the heaters.

21. A film forming apparatus according to claim 15, wherein the containers  
25 comprises crucible.

22. A film forming apparatus comprising:  
a load chamber;  
an alignment chamber;  
30 a first film forming chamber for forming an organic compound layer on a first

electrode;

a purifying chamber;

a second film forming chamber for forming a second electrode on the organic compound layer; and

5 a sealing chamber,

wherein the first film forming chamber comprises a vaporization source and the purifying chamber comprises a plurality of containers, a heater, and a carrier mechanism,

wherein the heater comprises moving means and heating means for heating the plurality of containers at the time of movement of the heater, and

10 wherein the carrier mechanism comprises carrying means for carrying the plurality of containers from the purifying chamber to the vaporization source.

23. A film forming apparatus according to claim 22, wherein the heater comprises moving means for moving in a longitudinal direction of the container.

15 24. A film forming apparatus according to claim 22, wherein the heater moves at a speed of  $10^{-2}$  to 10 cm/h.

25 25. A film forming apparatus according to claim 22, wherein the plurality of containers have a structure in which a plurality of containers each having an opening at a bottom are stacked on a container having a bottom portion.

26. A film forming apparatus according to claim 22, wherein the container includes an organic compound in a solid state at room temperature under normal  
25 atmospheric pressure.

27. A film forming apparatus according to claim 22, wherein the container comprises a plurality of the heaters.

30 28. A film forming apparatus according to claim 22, wherein the containers

comprises crucible.

29. A film forming apparatus comprising:

a film forming chamber; and

a purifying chamber connected to the film forming chamber via a gate,

wherein the purifying chamber comprises a container and a heater,

wherein the container comprises moving means for moving in a longitudinal direction of the container, and

wherein the heater heats the container.

30. A film forming apparatus according to claim 29, wherein the container moves at a speed of  $10^{-2}$  to 10 cm/h.

31. A film forming apparatus according to claim 29, wherein the container includes an organic compound in a solid state at room temperature under normal atmospheric pressure.

32. A film forming apparatus according to claim 29, wherein the container is provided with a plurality of the heaters.

33. A film forming apparatus according to claim 29, said film forming apparatus comprises a plurality of the containers.

34. A film forming apparatus according to claim 29, wherein the film forming chamber is disposed above the purifying chamber via the gate.

35. A film forming apparatus according to claim 29, wherein the containers comprises crucible.

36. A film forming apparatus comprising:

a film forming chamber; and  
a purifying chamber,  
wherein the film forming chamber comprises a vaporization source, and the  
purifying chamber comprises a plurality of containers, a heater, and a carrier mechanism,  
5 wherein the plurality of containers are stacked on each other, and the plurality of  
containers comprise moving means for moving in a longitudinal direction in which the  
plurality of containers are stacked on each other,  
wherein the heater comprises heating means for heating the plurality of containers,  
and  
10 wherein the carrier mechanism comprises carrying means for carrying only a  
container containing a highly purified organic compound among the plurality of containers  
from the purifying chamber to the vaporization source.

37. A film forming apparatus according to claim 36, wherein the container moves  
15 at a speed of  $10^{-2}$  to 10 cm/h.

38. A film forming apparatus according to claim 36, wherein the plurality of  
containers have a structure in which a plurality of containers each having an opening at a  
bottom are stacked on a container having a bottom portion.

39. A film forming apparatus according to claim 36, wherein the container  
includes an organic compound in a solid state at room temperature under normal  
atmospheric pressure.

40. A film forming apparatus according to claim 36, wherein the container is  
25 provided with a plurality of the heaters.

41. A film forming apparatus according to claim 36, wherein the containers  
comprises crucible.

42. A film forming apparatus comprising:

a load chamber;

an alignment chamber;

a first film forming chamber for forming an organic compound layer on a first

5 electrode;

a purifying chamber;

a second film forming chamber for forming a second electrode on the organic compound layer; and a sealing chamber,

wherein the first film forming chamber comprises a vaporization source and the  
10 purifying chamber comprises a plurality of containers, a heater, and a carrier mechanism,

wherein the plurality of containers comprise moving means for moving in a longitudinal direction of the plurality of containers, and

wherein the heater heats the plurality of containers.

43. A film forming apparatus according to claim 42, wherein the plurality of  
15 containers have a structure in which a plurality of containers each having an opening at a bottom are stacked on a container having a bottom portion.

44. A film forming apparatus according to claim 42, wherein the container moves  
20 at a speed of  $10^{-2}$  to 10 cm/h.

45. A film forming apparatus according to claim 42, wherein the container includes an organic compound in a solid state at room temperature under normal atmospheric pressure.

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46. A film forming apparatus according to claim 42, wherein the container is provided with a plurality of the heaters.

47. A film forming apparatus according to claim 42, wherein the containers  
30 comprises crucible.

48. A method of forming a film, comprising the steps of:  
heating an organic compound provided in a container with a heater;  
separating an impurity contained in the organic compound along with the  
5 movement of the heater; and  
evaporating a high-purity organic compound obtained by separating the impurity  
to form an organic compound layer.

49. A method of forming a film according to claim 48, wherein the heater heats  
10 the container while moving at a speed of  $10^{-2}$  to 10 cm/h in a longitudinal direction of the  
container.

50. A method of forming a film according to claim 48, wherein the impurity is  
evaporated by heating with the heater to be removed through an exhaust system.

51. A method of forming a film according to claim 48, wherein a plurality of  
containers each having an opening at a bottom are stacked on a container and only the  
container containing the high-purity organic compound is taken out to be used as a  
vaporization source.

52. A film forming apparatus according to claim 48, wherein the containers  
comprises crucible.

53. A method of forming a light emitting device comprising:  
25 purifying an organic compound by zone melting to form a purified organic  
compound in a film forming apparatus;  
evaporating the purified organic compound to form an organic compound film  
over a substrate in the same film forming apparatus.

54. A method of forming light emitting device comprising:



purifying an organic compound by zone melting in a first chamber of an apparatus to form a purified organic compound; and

evaporating the purified organic compound to form an organic compound film over a substrate in a second chamber of the same apparatus.

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55. A method of forming a light emitting device according to claim 54, wherein the method further comprising a step of transferring the purified organic compound from the first chamber to the second chamber without exposing the purified organic compound to the air.

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56. A method of forming a film, comprising the steps of:

heating an organic compound with a heater in a first chamber;

separating an impurity contained in the organic compound along with the movement of the heater in the first chamber;

15 carrying a purified portion in the organic compound from the first chamber to a second chamber by using a carrier mechanism;

evaporating the purified portion in the organic compound onto a substrate in the second chamber;

wherein the first chamber is connected to the second chamber, and

20 wherein the purified region in the organic compound is carried from the first chamber to the second chamber without exposing air outside chambers.